

5 CLAIM OR CLAIMS

- 10 1. A method of making a silicone oil-in-water emulsion comprising (i) preparing an aqueous phase containing water, a silicone polyether surfactant, and optionally one or more organic surfactants; (ii) preparing an oil phase comprising a silicon atom containing monomer polymerizable to a silicone oil of a desired molecular weight; (iii) combining the aqueous phase and the oil phase ; (iv) adding a polymerization catalyst; (v) heating and agitating the combined phases for a time sufficient to allow the silicon atom containing monomer to polymerize to a silicone oil having the desired molecular weight; and (vi) recovering a silicone oil-in-water emulsion containing the silicone oil of the desired molecular weight.
- 5 2. A silicone oil-in-water emulsion prepared by the method according to Claim 1.
- 20 3. A composition comprising the silicone oil-in-water emulsion according to Claim 2 and a component selected from the group consisting of salts, alcohols, solvents, and mixtures of salts, alcohols, and solvents. *B*
- 25 4. A composition according to Claim 3 in which the component is a salt, and the salt is an inorganic salt or an organic salt selected from the group consisting of calcium chloride, magnesium sulfate, magnesium chloride, sodium sulfate, sodium thiosulfate, sodium chloride, sodium phosphate, ammonium chloride, ammonium carbonate, iron sulfate, aluminum sulfate, aluminum chloride, aluminum chlorohydrate, aluminum sesquichlorohydrate, aluminum dichlorohydrate, aluminum zirconium tetrachlorohydrate, aluminum zirconium trichlorohydrate, aluminum zirconium tetrachlorohydrate, aluminum zirconium pentachlorohydrate, aluminum zirconium octachlorohydrate, sodium aluminum lactate, sodium acetate, sodium dehydroacetate, sodium butoxy ethoxy acetate, sodium caprylate, sodium citrate, sodium lactate, sodium dihydroxy glycinate, sodium gluconate, sodium glutamate, sodium hydroxymethane sulfonate, sodium oxalate, sodium phenate, sodium propionate, sodium saccharin, sodium salicylate, sodium sarcosinate, sodium toluene sulfonate, magnesium aspartate, calcium propionate, calcium saccharin, calcium *D*-saccharate, calcium thioglycolate, aluminum caprylate, aluminum citrate, aluminum diacetate, aluminum glycinate, aluminum lactate, aluminum methionate, aluminum phenosulfonate, potassium aspartate, potassium biphthalate, potassium bitartrate, potassium glycosulfate,
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- 5 potassium sorbate, potassium thioglycolate, potassium toluene sulfonate, and magnesium lactate.

5. A composition according to Claim 3 in which the component is an alcohol, and the alcohol component is a lower alkyl alcohol containing one to about four carbon atoms.

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6. A composition according to Claim 3 in which the component is a solvent, and the solvent component is an alkane containing less than about 16 carbon atoms, a ketone, an aromatic compound, an ester, an ether, a glycol, or a chlorinated hydrocarbon.

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7. A product containing the silicone oil-in-~~water~~^{oil} emulsion according to Claim 2, the product being selected from the group consisting of coating products, personal care products, household care products, automotive care products, and petroleum products.

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8. A method of treating the underarm, hair, or skin of the human body comprising applying to the underarm, hair, or skin of the human body, a personal care product according to Claim 7.

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